

Historic, archived document

Do not assume content reflects current scientific knowledge, policies, or practices.

THE INSECT PEST SURVEY
BULLETIN

Volume 15

Supplement

Number 2

BUREAU OF
ENTOMOLOGY AND PLANT QUARANTINE
UNITED STATES
DEPARTMENT OF AGRICULTURE
AND
THE STATE ENTOMOLOGICAL
AGENCIES COOPERATING

INSECT PEST SURVEY BULLETIN

Vol. 15

Supplement of Vol. 15, No. 2

No. 2

THE TWO BROODS OF PERIODICAL CICADA SCHEDULED TO APPEAR IN 1935

Brood IX of the periodical Cicada will appear in 1935. This is a well defined brood in southern West Virginia, western Virginia, and extreme northwestern North Carolina, with scattered records throughout the remainder of West Virginia and eastward into northern Virginia and Maryland. Even less positive records of single year's appearances of this brood have been made for northern Ohio, southwestern Michigan, and northern Indiana, and Martha's Vineyard, Mass. The last was only recorded in 1833.

The unsubstantiated theory of acceleration or retardation of certain individuals of any given brood might account for some of these scattered records. This brood was first recorded in 1833 and has been recorded at every subsequent period of appearance. A. D. Hopkins, by a survey carried on in 1901, did most to delimit the range of this interesting brood which nearly exactly fills the gap between the three foci of brood X, the largest brood of the 17 year race due to appear in 1936.

Following is a list of all the records available to the Insect Pest Survey on the occurrence of this brood. Under each State the counties (underlined) are arranged alphabetically and under each county the towns are arranged alphabetically. The numerals following a town indicate the year or years the brood was recorded from that town; those after the county indicate that the record was for the county and gave no specific town or towns. Counties or towns without dates are from records of the brood without giving any particular year of appearance.

Brood IX. 1833, 1850, 1867, 188⁴, 1901, 1918.

INDIANA.

Boone, Lebanon 1884; Blackford, Hartford City 1884; DeKalb, Stafford 1901; Lake, Cedar Lake 1884.

MARYLAND.

Baltimore, Baltimore 1918; Garrett, Oakland 1901.

MASSACHUSETTS.

Dukes 1833.

MICHIGAN.

Cass, Edwardsburg 1901; Newaygo 1901.

NORTH CAROLINA.

Allegheny, Elk Creek 1884, Edwards Crossroads 1901, Roseland 1901, Vox 1901; Ashe 1901; Moore, Southern Pines 1918; Surry 1901, 1918; Wilkes, Wilkesboro 1850, 1867, 1901; Yadkin 1901.

OHIO.

Cuyahoga, Bedford 1901; Medina, Seville 1884, Medina Twp. 1884.

VIRGINIA.

Alexandria, Maywood 1915; Bland, 1850, 1867, 1884; Buchanan, Grundy 1901; Carroll, Wasp 1901, Woodlawn 1901, Waltz 1901; Craig, Newcastle 1884; Fairfax, Great Falls 1918; Franklin 1884, Ferram 1901, Sycamoresville 1901; Giles 1884; Grayson 1867, 1884; Henry 1850, 1867, 1884; Lee, Ewing 1901; Loudoun*; Montgomery 1901; Patrick, Puckett 1901, Woolwine 1918; Pulaski 1850, 1867, 1884, New River Depot 1901, Newbern 1884; Roanoke 1884, Salem 1901; Smyth 1850, 1867, 1884, Holstein Mills 1901, Sugar Grove 1901; Tazewell 1850, 1867, 1884; Washington, Farris 1901; Wise, Pound 1867; Wythe 1884, Wytheville 1901, 1918.

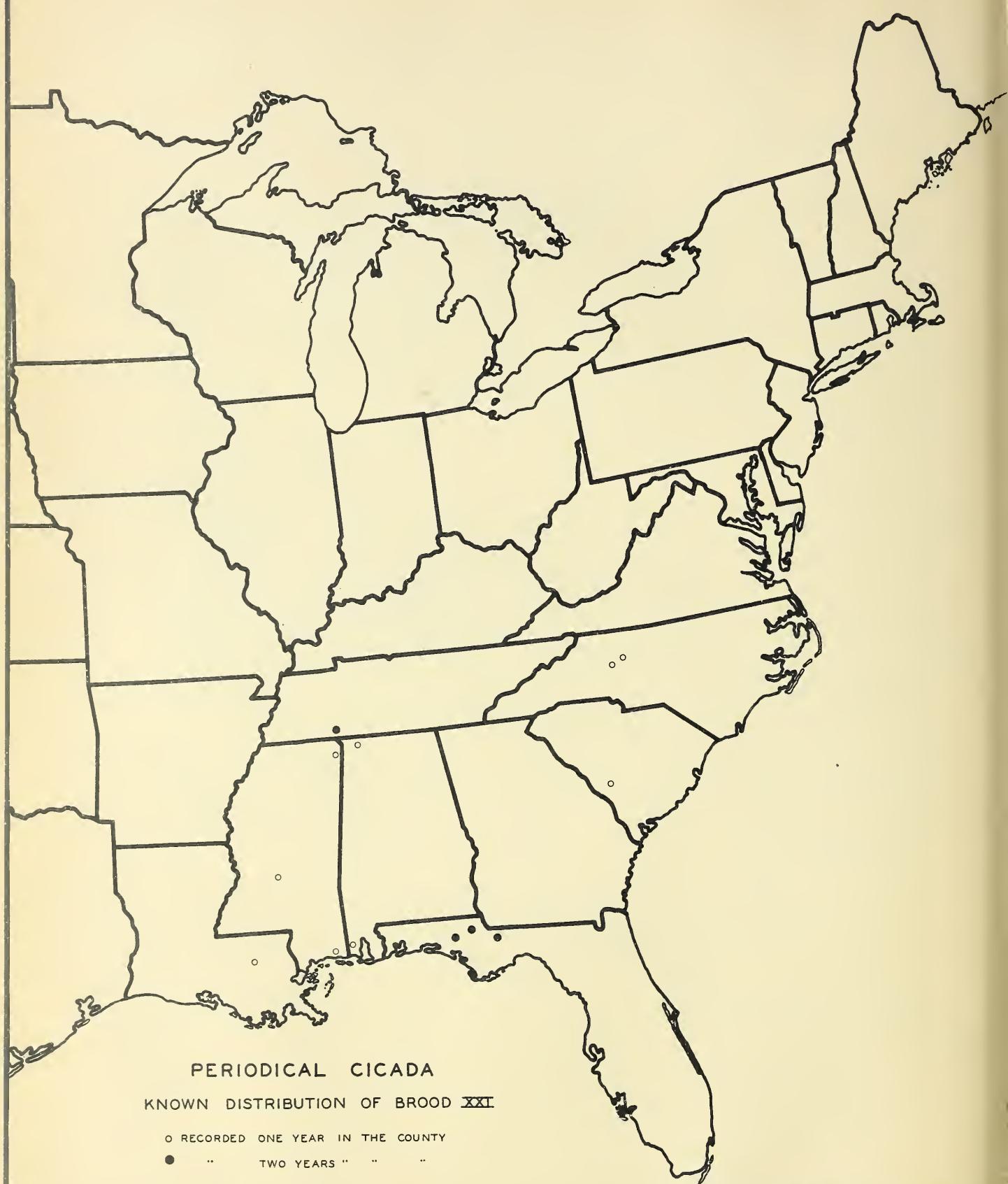
WEST VIRGINIA.

Barbour 1901; Berkeley 1901; Boone 1901; Braxton 1901; Clay 1901; Fayette 1867, 1884, Deepwater 1901, Oak Hill 1884; Greenbrier 1867, 1884; Hampshire 1901; Hardy 1901; Harrison 1901; Jackson 1901; Jefferson 1901; Kanawha 1901; Logan 1901; Marshall 1901; Mason 1901; Mercer, Athens 1884, Elkins 1884, Oakvale 1884; Monongalia 1901; Monroe "and adjoining counties", 1833, 1850, Greenbrier 1884; Nickolas 1901; Pleasants 1901; Pocahontas 1901, Buckeye 1884; Preston 1884, 1901, Lewisburg 1884; Putnam 1901; Raleigh, Cittie 1867, 1884, 1901, Prosperity 1884, Raleigh (C. H.) 1884, Roxie 1884, Sunflower 1884, Table Rock 1884; Randolph, Kingsville 1901; Roane 1901; Summers, Clayton 1884, Indian Mills 1884; Tucker 1901; Tyler 1901; Upshur 1901; Webster 1901; Wetzel 1901; Wood 1901; Wyoming 1901.

* Recorded in U. S. D. A. Bur. Ent. B 71, 1923.







Brood XXI of the tredecim race is very problematical. Three successive appearances were recorded in the extreme northwestern part of Florida, 1854, 1857, and 1870. There was a single record of the appearance of this brood in 1883 and 1896 in South Carolina and Louisiana, respectively. The brood was not recorded in 1909 and in 1922 only two specimens were seen, both at Pelahatchie, Miss. Following is a list of all the records available to the Insect Pest Survey on the occurrence of this brood:

Brood XXI. 18th, 1857, 1870, 1883 (1896), (1909), 1922.

ALABAMA.

Lauderdale*; Mobile, Mobile 1870.

FLORIDA.

Northwestern part 1870; Gadsden 18th, 1857; Jackson 18th, 1857; Washington 18th, 1857.

LOUISIANA.

Livingston, Whitehall 1896.

MISSISSIPPI.

Eastern part 1870; Jackson*; Fishomingo*; Rankin, Pelahatchie 1922.

NORTH CAROLINA.

Davie 1870; Iredell 1870.

SOUTH CAROLINA.

Barnwell, Martin 1883.

TENNESSEE.

Hardin 1922, Savannah 1870.

* Recorded in U. S. D. A. Bur. Ent. B. 71, 1923.

TABLE OF COINCIDENCE
OF BROODS OF PERIODICAL CICADA

	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	XIII	XIV	XV	XVI	XVII
XVIII			1776														
XIX				1777													
XI	1781				1778												
XII		1782				1779											
XIII			1783				1780										
XIV				1784				1781									
XV	1808				1785				1782								
XVI		1809				1786				1783							
XVII			1810				1787				1784						
XVIII				1811				1788				1785					
XVIII	1825				1812				1789				1786				
XIX		1826				1813				1800				1787			
XIX			1827				1814				1801			1788			
XVII				1828				1815				1802			1789		
XIX	1842				1829				1816				1803			1790	
XI		1843				1830				1817				1804			
XII			1844				1831				1818			1805			
XIII				1845				1832				1819			1806		
XIV	1859				1846				1833				1820			1807	
XV		1860				1847				1834				1821			
XVI			1861				1848				1835			1822			
XVII				1862				1849				1836			1823		
XVIII	1876				1863				1850				1837			1824	
XIX		1877				1864				1851				1838			
XIX			1878				1865				1852			1839			
XIX				1879				1866				1853			1840		
XVII	1893				1880				1867				1854			1841	
XIX		1894				1881				1868				1855			
XI			1895				1882				1869			1856			
XII				1896				1883				1870			1857		
XIII	1910				1897				1884				1871			1858	
XIV		1911				1898				1885				1872			
XV			1912				1899				1886			1873			
XVI				1913				1900				1887			1874		
XVII	1927				1914				1901				1888			1875	
XVIII		1928				1915				1902				1889			
XIX			1929				1916				1903			1890			
XIX				1930				1917				1904			1891		
XIX	1944				1931				1918				1905			1892	
XVII		1945				1932				1919				1906			
XIX			1946				1933				1920			1907			
XI				1947				1934				1921			1908		
XII	1961				1948				1935				1922			1909	
XIII		1962				1949				1936				1923			
XIV			1953				1950				1937				1924		
XV				1954				1951				1938			1925		
XVI					1965				1952				1939			1926	
XVII						1966				1953				1940			
XVIII							1967				1954				1941		
XIX							1968				1955				1942		
XIX								1969				1956			1943		
XIX									1970				1957				
XVII										1971				1958			
XIX											1972				1959		
XI												1973				1960	

